**ULTRA 76 PLUS** – Modified Ta2.5%W Alloy for Aggressive Corrosion Applications

**Superior performance in highly concentrated hot HCl and H₂SO₄ Acids**

> Significant reduction in hydrogen embrittlement
  - Up to 100 times lower in HCl
  - 19 - 44 times lower in H₂SO₄
> Reduced corrosion rates
> Maintaining the excellent mechanical properties of NRC®76 (Ta2.5%W)
> Eliminating the need for Pt spot welding
> Potential for increased operating temperatures in H₂SO₄ and HCl acids

**Applications**

> Heat exchangers
> Condensers, coils
> Columns, vessels, reactors
> Bayonet heaters
> Furnace parts
> Others

**Benefits**

> Reduced downtime by extending equipment life
> Potential to design higher performance processes for higher temperature and concentrations
> Reduced maintenance cost
> Improved equipment reliability

**Forms Available**

> Welded tubing
> Rod, bar
> Crucibles
> Plate, sheet, foil
> Glass vessels repair kits
> Custom shapes and sizes

H.C. Starck
ULTRA 76 PLUS
Corrosion and Mechanical Test Results for HCl and H2SO4 Acids

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